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## THE PLOTTER

CLACKAMAS AREA T/S USERS  
NEWSLETTER

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VOLUME 1, NUMBER 2  
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EDITED BY: ROD GOWEN  
WRITTEN BY: ROD GOWEN AND  
DENNIS JURRIES

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HI THERE--FELLOW CAT/S-

How do you like the new title?  
It will be our new group name  
if we all agree at the next  
meeting. The name stands for:  
CLACKAMAS AREA T/S USERS.

WELL-issue number 2 and still  
going, we hope that all of you  
enjoyed the first issue and  
will continue to enjoy reading  
it as much as we enjoy putting  
it together and getting it out.  
We also want to get more of you  
involved by contributing more  
reviews, articles and short,  
usefull program listings.

KEEP THEM COMING--

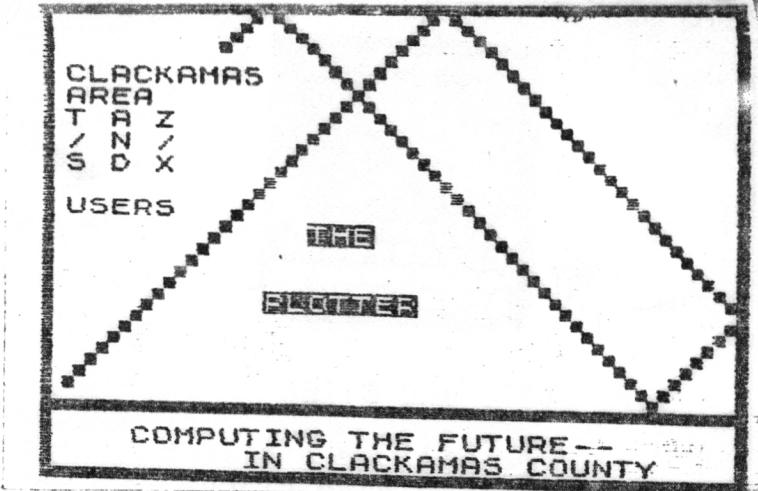
### MEETINGS

The next meeting of CAT/S will  
be held:

on: FRIDAY, OCTOBER 14  
at: 7:00 P.M.  
in: RM 142, CLAIRMONT HALL  
CLACKMAS COMM. COLLEGE

We will also be keeping you  
informed as to time and place  
of PATS next meeting:

on: SATURDAY, OCTOBER 8  
at: 1:00 P.M.  
in: RM B15, SCI AND TECH  
PCC SYLVANIA CAMPUS



As for our last meeting, it was  
held on: SEPT. 9, 1983 at: 7:00  
PM in: RM 142, CLAIRMONT HALL  
on the CCC campus. There was a  
real good turnout but we hope  
to see even bigger numbers in  
the future. We wish to extend  
a warm welcome to our three new  
paid-up members. They are:

DONALD BECK, VINCENT LYON  
and DAVID NORDENGREN.

Lets really make them feel at  
home with us.

Two members, ROD GOWEN and DICK  
WAGNER, brought their modified  
ZX/Ts COMPUTERS to the meeting  
and had them set up to demo  
hardware and software items. We  
hope that some of you got some  
help and information you could  
make good use of. There will be  
more information on these and  
other items in this and future  
issues of your newsletter--

WATCH FOR THEM...

There was a short, but, we hope  
an informative discussion on  
the new TS 2068, by the members  
who had seen and tried one.

One topic brought up for our  
discussion, was the idea of the  
creation of some sort of club  
pin with an appropriate logo  
or emblem. At a future time we  
may also wish to produce a  
patch to match. Some concepts  
were discussed and KEVIN FOWLER  
promised to bring with him to  
our next meeting, some samples  
for our inspection.



Use the POWER  
within your reach!

## BITS and BYTES

NOTE:--There will be a slight change as to the date of our NOVEMBER meeting. Because of VETERANS DAY, it will be held on THURSDAY the 10th, instead of FRIDAY, the 11th.

RUSSELL MEADE, our area rep for TIMEX, will be moving from TACOMA, WA., to PORTLAND in the near future. We hope to have him speak at a meeting as soon as he can arrange his schedule. We will be looking forward to hearing what he may have to say as to future plans by TIMEX. Any news we get from him in the meantime will be brought to you as soon as possible.

Our Program listing this month was submitted by DICK WAGNER, as was our Product hardware review on the REVERSE VIDEO BOARD.

If you know of any ZX/TS owners who are not members of any group, and might enjoy and/or get something out of our group, please invite them to a meeting to share in our experiences and knowledge (such as it is). The experience will not cost them anything except a couple of hours of their time.

We now have four (4) tapes in the club library and there will soon be more. Look for them at the meeting. If any of you have a program that you wish to share with the club, or if you have a review or short program or routine to share, please contact either:

ROD GOWEN 655-7484 or  
DENNIS JURRIES 655-9670

## HARDWARE REVIEW

REVERSE VIDEO  
by DICK WAGNER

My REVERSE VIDEO installation seemed to be of interest to members at the SEPTEMBER meeting. It was purchased from:

COTTAGE TECHNOLOGY  
5720 W. LITTLE YORK  
SUITE 178  
HOUSTON, TX 77091

The price was \$8.95 plus \$1.00 postage and handling for each item ordered. Our group now has a discount coupon for a 10 percent reduction which means that on a group order we could save enough to pay the postage.

The module measures 3/4in. X 5/8in. X 1/4in., and requires only four (4) wires to be soldered in and one (1) trace to be cut. Good documentation is provided. The case back is removed (5 screws) and one trace is cut to disengage normal video mode. The circuit board need not be removed from the upper case. Not mentioned in the instructions, a SPST (single-Pole-single-throw) switch can be installed across the cut trace to allow switching from normal to reverse video mode. Use RADIO SHACK no. 275-624 toggle switch at \$1.49 or no. 275-406 slide switch at 2/\$.69. The smallest switch possible is required to fit into the case top.

For the timid or inexperienced User Group members, I will install the unit and toggle switch at no charge. (You must supply the parts). However, as the slide switch is more difficult to install, I will have to charge \$1.50 for the extra work.

BE AWARE--for new computers, any such changes will void the warranty, so if you are interested, buy the unit now and install it as soon as the factory warranty is off.

#### ZX/TS P and R (Programs and Routines)

Ever wonder how to round off that number in a routine that came out to 6 decimal places? Here is the formula to use in your program to do the job of rounding off to 2 places:

```
LET R=INT(100*N+0.05)/100
```

N= number to be rounded off.  
R= number after rounding off.

Hope you can make use of this little tip. We will try to have a useful, one line routine in each issue. If you have one to share with us, Please submit it for future publication.

As this is our monthly column to spotlight a short program submitted by one of our members and of general interest, we would like to have more of you submitting material.

Here is this months program, submitted by: DICK WAGNER, who also gave us this months hardware review. He and we hope you enjoy both.

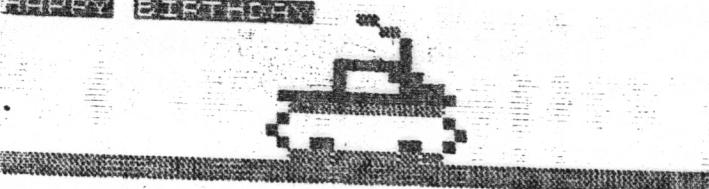
UNTIL NEXT TIME--

keep on

POKEing and PEEKing>>>

THIS LITTLE GRAPHIC PROGRAM WILL FIT IN WITH THE GRAPHICS DENNIS IS PLANNING. IT USES THE SAME PROGRAM PART FOR THE MOVING DISPLAY. MY 10 YEAR OLD GRANDSON GETS A KICK OUT OF THIS TYPE OF GRAPHICS. THE TRICK IS TO PLACE THE INVERSE GRAPHIC MESSAGE JUST RIGHT TO MAKE IT LOOK LIKE EXHAUST FROM THE SNOWCAT. IT TOOK A LITTLE ADJUSTING FOR THE CORRECT "PRINT AT" LOCATION SO MY PROGRAM SHOULD BE FOLLOWED CLOSELY. THE REM STATEMENTS IN LINES 5 AND 6 GIVE THE SHIFTED KEYS TO USE IN CASE THE FINAL PRINT IS NOT TOO CLEAR. I HAVE NOT FOUND A WAY TO MAKE A GRAPHICS FIGURE MOVE AS AN ENTIRE UNIT SO I USED A FIXED FIGURE.

HAPPY BIRTHDAY



```
1 REM I USED A SCROLLING MESSAGE LIKE "HAPPY BIRTHDAY" TO MAKE A GOOD SHOWING TYPE RIGHT TO THE END OF EACH LINE, NO EXTRA SPACES.
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```
2 REM LINES 60 THRU 100 PROVIDES THE SCROLL TO BE ON LINE WITH THE SMOKE FROM THE EXHAUST AND STARTINGAT THE CORRECT POINT.
```

```
5 REM GRAPHIC CHARACTERS ARE SHIFTED 9 AND SHIFTED NUMBERS/LETTERS IN THIS ORDER:D S 3 5 6 6 6 5 2 SPACE 8 2 1 G G G G G G
```

```
6 REM (CONT) T T 2 D G D D D G D. IN LINE 55 USE THE LETTER H 32 TIMES. DONT COUNT, JUST STOP WHEN THE CHARACTER END LINES UP WITH THE START.
```

```
8 PRINT " INPUT MESSAGE WHEN PROMPTED BY " "L" " "
```

```
9 PAUSE 100
```

```
10 CLS
12 PRINT AT 8,16;""
15 PRINT AT 9,17;""
20 PRINT AT 9,18;""
25 PRINT AT 10,18;""
30 PRINT AT 10,15;"";AT 10,15
;"";AT 10,17;""
35 PRINT AT 11,15;"";AT 11,17
;"";AT 11,18;"";AT 11,19;""
40 PRINT AT 12,12;"";AT 12,20
;"
```

```
45 PRINT AT 12,13;"";AT 13,12;""
50 PRINT AT 14,12;"";AT 14,13
;"";AT 14,14;"";AT 14,15;""
;AT 14,16;"";AT 14,19;"";AT 14,20;
```

```
55 PRINT AT 15,0;""
60 INPUT A$
```

```
70 LET A$="" "+A$
```

```
80 PRINT AT 8,0;A$(1 TO 16)
```

```
90 LET A$=A$(2 TO LEN A$)+A$(1
```

```
100 GOTO 60
```

SPECIAL NOTE

or all of you who have asked  
here is a copy of the complete  
roster of our membership. As  
the group grows, we will put  
out a new list from time to  
time. WATCH US GROW\*\*

2  
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3  
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MILWAUKIE 1 OR. 97222

4  
RIPPEY, QUINTEN  
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5  
MARKHAM, WAYNE  
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6  
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7  
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CANBY 1 OR. 97013

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PORTLAND 1 OR. 97213

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MILWAUKIE 1 OR. 97222

30  
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CLACKAMAS 1 OR. 97015

34  
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PORTLAND 1 OR. 97206

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